PROJECT DESCRIPTION	EQUIPMENT LISTS (CONT.)		EQUIPMENT LISTS (CONT.)	
I. GENERAL	B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED	BY THE CONTRACTOR	C. EQUIPMENT TO BE FURNISHED BY MONTGOMERY COUNTY	
This project involves the installation of a new traffic control signal with street	ITEM NO. DESCRIPTION C	QUANTITY	ITEM NO. DESCRIPTION QUANTITY	PHASE CHART
lighting and interconnect at the intersection of MD 198 and Old Columbia Pike in Montgomery County, A fourth leg of the intersection is being constructed to serve as a driveway to Burtonsville Elementary School, The existing traffic signal at MD 198	8001 Furnish and install concrete for signal foundation.	17 C.Y.	Splice cabinet 1 EA	1 2 3 4 5 6 7 8 9 10 11
and Burtonsville V.F.D. shall be removed as part of this project. MD 198 is assumed to run in an east / west direction.	8018 Install pushbutton and sign.	2 EA	D. EQUIPMENT TO BE FURNISHED AND INSTALLED BY MONTGOMERY COUNTY	R R R R R R R
II INTERCECTION OPERATION	8019 Install controller and cabinet pole mount. (Splice cabinet)	1 EA	ITEM NO. DESCRIPTION QUANTITY	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
<ol> <li>INTERSECTION OPERATION</li> <li>The intersection is to operate in a NEMA six-phase, semi-actuated mode, with</li> </ol>	8020 Install controller and cabinet base mount.	1 EA	Video detector camera 4 EA w/ coaxial cable	PHASE 1 & 5 $-\sqrt{R} + G - \sqrt{R} + G - \sqrt{R} + R + R + R + R + R + R + R + R + R +$
the MD 198 approaches running concurrently. Video detection shall be used for all left turn aproaches. Exclusive/Permissive left turn phases shall be provided for both approaches of MD 198. A pedestrian phase with pushbutton actuation shall	8024 Furnish and install 2" schedule 80 rigid polyvinyl chloride – trenched	40 L.F.	Furnish and install electrical 825 L.F. cable — 3 conductor (No. 14	CHANGES TO PHASES 1 & 6, 2 & 5 OR 2 & 6
be provided across the west leg of MD 198. The pedestrian phases across Old Columbia Pike and the School Driveway shall be on recall. The Old Columbia Pike and Burtonsville Elementary School approaches shall run concurrently.	8027 Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit — trenched	300 L.F.	AWG).	PHASE 1 & 6     ←G-/G ←G-/G G R R R R R R R R R R R R R R R R R R
2. A full—traffic—actuated, eight—phase controller, L.A.U. and L.A.U. Panel with asociated harnesses housed in a NEMA size "6" base—mounted cabinet shall be installed at this	8029 Furnish and install 3" schedule 80 rigid polyvinyl chloride conduit — bored.	230 L.F.		PHASE 2 & 5         R         R         R         R         G-/G         G         R
intersection. III. SPECIAL NOTES	8030 Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit — trenched.	35 L.F.		PHASE 2 & 6 G G G G G R R R R R L
1. The Contractor shall be responsible for terminating all signal cables, excluding	8033 Furnish and install electrical handhole.	4 EA		2 & 6 CHANGE Y Y Y Y Y R R R R R
interconnect, to the appropriate terminals and shall properly label each cable.  2. The contractor shall run the interconnect cable into the base of the cabinet	8034 Furnish and install ground rod $\frac{3}{4}$ x 10'.	5 EA		PHASE 4 & 8         R         R         R         R         R         R         R         R         G         A <t< td=""></t<>
and properly tag the cable. Contact Mr. Bobby Gonzales of MCDPW&T at (240) 777-8761 seventy-two hours in advance of intended work.		650 L.F.		4 & 8 CHANGE R R R R R Y Y Y Y Y T T T T T T T T T T
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located	filled, (underground).  8042 Furnish and install electrical cable — 2 conductor (No. 14	190 L.F.		OPERTION TEXT TEXT TEXT TEXT TEXT TEXT TEXT
in the field. If the Contractor percieves that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.	cable - 3 conductor (No. 14	465 L.F.		
EQUIPMENT LISTS  A. EQUIPMENT TO BE SUPPLIED BY S.H.A	AWG).  8044 Furnish and install electrical cable — 5 conductor (No. 14 AWG).	580 L.F.		
ITEM NO. DESCRIPTION QUANTITY		320 L.F.		
9000 Eight-phase, full-traffic 1 EA actuated, solid state digital controller, L.A.U., L.A.U. Panel and associated harnesses housed in a NEMA		320 L.F.		WIRING DIAGRAM
size " 6 " base-mounted cabinet.	8048 Furnish and install No. 6 AWG stranded bare copper ground wire.	90 L.F.		
9089 Sheet aluminum signs to consist of: 116 SF  R10-12 "LEFT TURN YIELD 2 EA ON GREEN (BALL)" sign,	8051 Furnish and install wood sign supports 4" x 6".	68 L.F.		
(36" x 42") mast arm mounted.		52 S.F.		
R3—5L "LEFT TURN ONLY" 2 EA sign, (30" x 36") mast arm mounted.		106 S.F. 2 EA		
GUIDE SHIELD ASSEMBLY 1 EA (36"x68") pole mounted. M3-2 "WEST"(30"X15")	HPS Luminaire with photocell.	2 EA		
M1-5 "MD 198"(36"X30") M6-1 "left arrow"(36"X24")	bracket arm for traffic signal structure.	5 EA	WIRING KEY	A,B,N,Q,U TE,J E
GUIDE SHIELD ASSEMBLY 1 EA (24"x51") pole mounted. M3-2 "EAST"(24"X12") M1-5 "MD 198"(30"X24")	existing foundation 12" below grade.		7-conductor electrical	E E,O,S E,S
M6-1 "right arrow" (21"X15")  S2-1 "SCHOOL CROSSING" 4 EA	8058 Removal of existing controller, cabinet and galvanized signal structure.	1 EA	E CABLE (NO. 14 A.W.G ) F G	E,S
ground mounted. (30"X30")  M6-2 "right arrow" ground 2 EA mounted (21"x15")	8059 Delivery of removed controller, cabinet and galvanized signal structure (per intersection).	1 EA	5-CONDUCTOR ELECTRICAL L CABLE (NO. 14 A.W.G )	A,B,E,N,Q,S,U A,H
M6-2 "left arrow" ground 2 EA mounted (21"x15")	8060 Remove and dispose of existing material and equipment per assignment.	1 EA	O _ STRANDED BARE COPPER GROUND	C C,K
W3-3 NEW "SIGNAL AHEAD" 2 EA sign, (36" x 36") ground mounted with hardware.	8064 Furnish and install 2" electrical conduit — polyvinyl chloride riser.	30 L.F.	WIRE (NO. 6 A.W.G.)  P - 12-PAIR VOICE GRADE INTERCONNECT CABLE (JELLY FILLED)  BGE*30	C,D,P,R,T C,D,K
Pedestrian education signs 2 EA (No road name)	8066 Furnish and install control and distribution equipment	1 EA	Q 2-CONDUCTOR TRAY R CABLE (NO. 12 A.W.G )	CDEEGO X X F T-C,D
9090 Sheet aluminum signs to consist of: 42 SF (Blue or Green)	(120/240 V, 1 phase 3 wire system).		T) CABLE (NO. 14 A.W.G.)  M,N,P,C	Q,R,S,T,U,V $F,G$ $F,G,L$ $G$ $F,G,L$ $G$
D3-2 "Old Columbia PK 15400> 1 EA right arrow" dual faced sign (variable x 16") mast arm mounted.	8076 Furnish and install mast arm pole and 38' mast arm.	1 EA	U 2-CONDUCTOR ELECTRICAL V CABLE (NO. 14 A.W.G )  W = 3-1 CONDUCTOR ELECTRICAL	P
D3-2 "<15400 Old Columbia PK " 1 EA	8077 Furnish and install mast arm pole and 50' mast arm.	2 EA	W - 3-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.) X - VIDEO DETECTOR (Note: Detector and	
left arrow" dual faced sign  D3-2 "Spencerville RD < 3600" 1 EA	8078 Furnish and install mast arm pole and 60' mast arm.	1 EA	associated wiring shall be installed by Montgomery County Forces.)	
dual faced sign (variable x 16") mast arm mounted.	8084 Furnish and install 12" vehiclular traffic signal head section	41 EA	PS - PROPOSED OVERHEAD SERVICE TO BE INSTALLED BY BGE  TO GROUND ROD	
D3-2 "Spencerville RD 3600>" 1 EA dual faced sign (variable x 16") mast arm mounted.	NEG. Pull back and cut 12-pair interconnect cable	150 L.F.	REVISIONS	APPROVALS  MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
9096 Pedestrian pushbutton and 2 EA R10-3C sign. (Note: Sign to read "PUSHBUTTON TO CROSS SPENCERVILLE RD".)				Office of Traffic & Safety  TRAFFIC ENGINEERING DESIGN DIVISION
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR				MD 198 (SPENCERVILLE RD) AND OLD COLUMBIA PIKE / SCHOOL DRIVEWAY
ITEM NO. DESCRIPTION QUANTITY 1001 Maintenance of traffic per 1 EA			STREET TRAFFIC STUDIES, LTD.  400 Crain Hwy.NW. Gion Burnie, MD 21061	DRAWN BY: ROB CICCHINI COUNTY: MONTGOMERY  CHEF, TRAFFIC ENGINEERING DESIGN DIVISION CHECK BY: R ZACHERL LOG MILE: SHEET NO.
assignment.  2001 Test pit excavation.  5 C.Y.			Glen Burnie, ND 2/06/ Ph (4/0) 590-5500 Fax (4/0) 590-6637	DATE: 5/24/2000 F.A.P. NO. T.I.M.S. NO. 3 OF 3
			TASK42GI.DGN	DIRECTOR, TRAFFIC & SAFETY SCALE: N/A S.H.A. NO. MOSSIASE D 98